AMEGRAW-HILL PUBLICATION SEPT. 13, 1948

WASP MAJORS POWER THE CONSTITUTION

Lockheed Aircraft's huge Constitution, one of the largest transports ever to take to the air, is now being readied to serve the U.S. Navy. Powered by four dependable Pratt & Whitney Wasp Major engines, capable of developing 14,000 horse-power, this 92-ton giant is able to carry nearly 200 people and thousands of pounds of cargo aloft—safely and swiftly.

PRATT & WHITNEY AIRCRAFT

EAST HARTFORD, CONNECTICUT

ONE OF THE FOUR DIVISIONS OF UNITED AIRCRAFT CORPORATION





Now! An Even Bigger, Better Flying Boxcar -The Fairchild Pocket C-119

Something new in the six. Out of the tried and proved first please ever come that local courter of Friedrill sup-

Like the ongrad C-82 Packet, the C-119 is a product of close cooperation between Farreleds and the Ast Force.

climb, the new Packet can transport more over,

more equipment and more supplies than its worthy predocestor. As an analyzingou plane to is equipped to carry 36 little patients and at-

The are Drive Boscar incorporates inprovements and modifications proved in thossurels of hours of actual service. All on all, Army . . . and of Farrelald engineering and

sescarch skel-Fairchild Aircraft



AVIATION WEEK, September 13, 1961

COMPLETE RANGE POWER

Sentember 11, 1965

CONTINENTAL ENGINES

If your requirements are

between 65 and 185 horse-

power, then there's a

Continental engine that's

built for your lob.

New Digest 7 Engagering-Production . . . 22 Agr Race Pictures 11, 14, 33 Briefing for Dealers 35 Headline News 12 Transport 39

Letters 35 Editoral 50

Charles L. Adams Transaction Various Gieralis names many Recorder and Alektroid Office; 228 N. 424 St., New York St. N. Y., Phone

Rameric New Reyner, Adense S, Barlon Berrett Hills, Chinego H, 20 N. Richigas, An., Cherland S, Barna MM, Devell N, Franchen et Barg, Lee Angelow IS, III S Hape Seq Sun Francesco S, 10 Part Sc., Bleatins, 314 Sough S, Cottagandaria Sances, Bridsh, Dellin, Bergere, Derece Holmogelin, Johnson M, Company M, Charles S, Charles M, Steinglan, Monta-Salvanter, New Orlean (Schore Very Optional), Description, Stein-Shevater, New Orlean (Schore Very Option Spaceholper Service, Per-ronal Press, New Option (Schore Very Option Spaceholper Service, Per-ronal Press, New Option (Schore Very Option Spaceholper Service, Per-ronal Press, New Option (Schore Very Option Spaceholper Service, Per-ronal Press, New Option (Schore Very Option Spaceholper Service).

Fronte New Barron, Looke, Paris, Stoke, Nesson, Trices Studies, Std. berger, Sto. de Jacobs, Stores Alves, Correspondent as Adem, Datum, Datamer, Schooler, Statistics, Statis

Bears M. Kresse, Student S. Pecker, Vollean F. Borley, Robert P. Uler

G. Jehano, Ractors Wenger, B. V. Norm, Jr., Sole Menger, Sele-Eggenstatives, J. C. Latino, New York, M. I. Ster, Philodolphia, V. S. Birtopi, Checked L. J. Hai, Olivaya, W. C. Johners, Askari, J. R. Cou-ten, San Francisco, L. T. Millervikk, Let Applica, Other side offices in Producty, Science, S. Leeb, Ractors and Latin.

DESCRIPTION OF PERSONS OF PERSONS ASSESSED FOR PERSONS OF PERSONS

AVIATION WESK, Seatenday 23, 1965

Aircraft ball bearing development in step with aviation progress



and a publish agreem in openhal stock looks from punker and stransard deflectors * Plyn Geets prevent except of historical and organics of communications. All reposed surfaces codering plated for roat R An exposed warmer Continues per previous and convence reministrate,

* Street copy may which with being outer it order into may water was heavy name and tall bell complement master and by Gad frittendree operation of larret * Pull bull complement provides high copyright



AVIATION WEEK, September 12, 2961



Fully counterbolonced cronkshoft-the ultimote in modern forging technique . . . Wymon-Gordon . . . cronkshoft forming specialists since the introduction of the internal combustion engine . . . first to forge cronkshofts with

Standard of the Industry for More Than Sixty Years

AAN - GORDON

Forgings of Aluminum, Magnesium, Steel WORCESTER, MASSACHUSETTS, U. S. A. HARVEY ILLINOIS DETROIT, MICHIGAN

NEWS DIGEST INDUSTRY OBSERVER

Borng Airplane Co has recoved a testing for CAA

For tion 1936 to 1939 ... Cost. Wil-Bus A. Wester, SJ. Fra America Figure Goodale, 61, who theflot New

resided the tast official parachete pump to the U.S. Amy at Fact Oceahs, Nah., to 1517 Lockheed Amoralt Corp seports net

Philippine Air Lines has employeded with Unsted to provide agrant over-

 Which for the Art Force to make mother would speed second attempt soon. Notified to finding follows in the heatily exercic Cleveland speed by the Nath Alexandr room, the Ar Peter both the PSSE and the D.85%-), next strongs at Munor, Cold, when both the PSSE and the D.85%-), nachr their world room Maj. Dick Johnson, PSSA pilot during the Cleveland some told Avertion Work that he definitely held the public birth disting an our man, personance, person of the beaut and no relac-ture on the flood of the public based on the Stane desert and no relac-tures on the flood of the F-SAL should like 700 mph, without difficulty steering coops of automate nature in the 1979 Hospital post of

► Cook Cirland spent \$31,000 equipping his two Coodyear F2G Consists for the 2945 Thempson and their withdrawal corty as the race fast about wiped not new people from his 1947 Thompson victory. Success of the Goodyne: lightplane mos both soft meng pilots and the public is torong ▶ Incoming solution use of GCA, regist precision lending system, is seen in the rule of 10 USAF CCA sets to the Royal Canadan Ast Form and writing five-map after my bear modified for two-map countries by

these to be made for fight very mon. One of the hig truckles is the Some observer believe this recise earlier well not be usedy far another *Directionals with mustic control consequent on set alone has induexted that the Loekhard F-80 can be Bown electromachy so to 40,000

* Endouge that the General Electric \$47 engine will not enterly replace

som is the \$35-17 engine now is production, which develops 4900 fb rapice is being restailed to the Republic P.S(D and P.SC) fighters *Third protetype Cromman XFSF-2 Punther New at Solito has been * Rabert Edwar Fulton expects to go fate small scale production on his

him the nod within 90 days

HP.TO.DATE AIRPORTS FROM COAST TO COAST ARE INSTALLING

Bendix-Triez Aerovane

THE MODERN INSTRUMENT FOR WIND SPEED

AND DIRECTION! The precision with which the Assessment increasing reacts to over-changing want conditions to don to the same feetings. of accordance design that give readon through their condition enabley or Sight in coldition, years of because bearings are purposed for deviced and

carded Give your report the broads of the

Secretary independent of ventor of Bendle fries Ascress

PRICE INSTRUMENT DIVISION STATE THE LEASE CONCERNOR

Make today for

letest regimenting reference in wheat

MAL. TH-TEND INDER COMMING SOUTHWAY

AVIATION CALENDAR

Sept. 10-17—Additional Intercement Dealer-side. Interferent Biother of Assorbes, Convenion Stat, Februaries, Francisco, Sept. 10-45—42.5. Altronolisms. Francisco, Interferent Dealers, Amil De-vision, Marches, Chicago. Sept. 14-85—30.00 conferents Ephiliag scan-lings. 14-85—30.00 conferents Ephiliag scan-

des Hilliands Associ Ariston Arielles

eth 106 Nov. 44—Departy of Augmentite Statistics, finds and paletonate parelling Mare Books Trins 1000s. Seer. 8—2500 spontioner Strings, Miss-Seer. 8—2500 spontioner Strings, Miss-

Now this ... Assertings Studiedy for Theoling.

Pioneer Parachute Co. Salutes The U.S. Air Force In the Linguistical Estation Beauty The Sont aread, feel proof. P.S.S. Perechute, then, freeble, body-haugesta cod samped coupped with Danser's exchains Orachite! Nonis perferred by types all cor: the world The proven supermy by of the P3.8 on wetherpoling the Porechate Co is truly IN THE VANGUARD OF AVIATION PROGRESS Test gray of the Lockhood Constitution equipped with comfestable filters Discours FO E Providence

AVIATION WIECK, Senomber 12, 2948



The "Unbroke" Internal Wrenching Solt (AL positionly "courts" in the Aviation Field . . . promptes of Assistion Daymerday. And the ether nonularly postoined "Unbroke" Products, pictured to the right, have proved themselves throughout Industry for yours or

Ask us for the same cod address of year scorest "Unbrake" and "Hellevell" ledetriol Distributor. . . . and your core of the (eformative and useful "Unbroke" Catalon





IENKINTOWN PENNA BOX MA INDIANA/QUIS SAH FRANCISCO

SELF-LOCKING NUTS

WON'T SHAKE LOOSE"

AVIATION WEEK, September 13, 1946

One Waves: One Wins: One Loses





AVIATED WEEK Specialist 11 1962







VIATION

Sept. 13, 1948



Johnson did not use the exclipit to

operation was healthy exected between Assessed after the USAF decided to try for a new wood sound with the Fidds do program to cognic USAF passay lost USAF-Navy Rivalry as competites with the New during County Should bed the Classics course with technical mandance of the

The course was seasoned to an accomore of william there medium and opproped with electronic times and astonistic moseling cameras. It will sedied the course during the mount serving you coming NAA changes whether the F-StA thread within the

corr toruble was alternated too late for Here weather amin deleved the at tempt as Sendar marring offerer toembrated qualitative for the relat and not See To book to the air in moderformore. ecifoct weather of a lifet lealure overon Monday, final day of the more. ruped official. Mar Abort F. Boyd.

ET I set Sabber on the Affron year. The USAF declined to epepele in Newy had entered a quartet of FF is and peraletions. However the USAF -- the med a Lackhood TF-88C per transmi services would to deploye the Senfew as F-80C over the speed course too severe for labours and the since

critical Mach number of their plane and

Lors Book Calif. to Cleydood on 4 he openham offset in the California Au Man Description-Apother add-RIM I from bost across the field at out a lettle longer than the Berlin methe New's Man Soundren, was onetributes to the Besin salist by selecrag USAF C.94s to be divorted from

The nanouncement overlooked a Mr. Managa-He'll by stem. portest primity cools between to the Recks are lift by deliverage learn look per ship and by ethering darks alread Makes Top Air Show its own northin forther dock, and

needed to a ferrandons demogration could use the Bellin Miss, thus so hering asport congestion and land it of indictary are power to Art Force-News nugly method a new peak during the choes. New has alwady offered the Mary spendage for Berlin service, but the effer has been tassed down by Although these is a National Militery PUSAF His Edge-For the first time star-asser competition both the Av B. Alberta Smith Post hour come less before the meet when the USAF withday the new Ladderd F-50; it had entrod to the Alices at dish from and a dive to 900 ft altitude at the right encrunge plots to exceed the

caree under operational control of the pageof affects surpred to the more been of writtee orders rosed well in adfrence will be set so dwaring the operation from public sclutters and placing it directly under USAF top

EMC over the Newlin course from

Air Force Honored Too politary efficials and leaders to attend the Washington Ar Poor by down at the Staticy Hotel Finday Seed 17, at which Delease Seneter



F-86A Hits Record: Cameras Miss

North American sweptwing fighter tops +Can Do 700 Mpt. -th Four officials American sweptwing fighter tops be left for both that you be also sub-D-558-1 mark before 80,000.

By Habert Berr was F-96A fields; set an unaffical sor back upward he was clocked at 600, The old and still official record is 650.6 mpb set by Maxine Mose More to E Col in a Dearlie Stytheri. France Trouble-The Av Foun's The ESSA reed covered full scene for secutators to follow the F-86A

AVIATION WEEK, Seatenber 72, 2940.





At The National Air Races Thompson East Winner Asson Johnson ex-ATC what at shows recrease he receive 1999 Investiga Coches thed alone was





The Air Baces Thompson Trophy sees to Johnson: Paul Manta

repeats in Bendix race. By Studey L. Colbert

The Labor Day record of alcost 80 Brown flows a P.30C Asserber made when he fireded the Vim None Calif-

Johnson, the 15 year old Manne

neighbor on the 64th lan and held of Firmond Takes Second-Dears 1 Ravenal Harmond, Indone, took Wilson V Noshall, competing in

fohmon's speed was below the malifety time-415 100 mol -which placed him in the No 1 position, and

Bondly Treeby Rose "R"-Division" Elegand Time Mph own "All place Sying P-Sts. Joe Bellows, takes convent, did one native before Till on the East. Timpermon Trophy Race Sobio Handican Type Plane

Mechanical Failures Gloss McCarthy's stable did stack

During Race Analyzed Solver of tests in the mad-defirst Beadle race Fd Lunker, City

Phish Sween-March first class were Place Tribe Other personal place price was \$4000. This year the New's record in the set division of

* Fact Economics-Storm and has



AVIATION WIDE Sentender 22, 1945



Technical Interest Seen in Racers

Some planes appear original and sturdy; thottle without seeing more than 50 others show lack of finesse.

Clowbad-With the open events again confined to suples combat as-Cooling actibions were burified ennticilly The housest-life copied by provided coeping are outliets excepted by *Lanet Desire-On Invest feature which the exametr of rice describes calably most entreats and emperated showed as wide a variation on number the Professional Race Pilots Assessment

the state front about the measurements hibrard an excellence on all points not ment examples or organizating and not most to They should a fine to sing Inchest \$35 estuate and a of the applied was left as its original Tengerary Soho and Thempson With the exception of the bage Post & their was only technology use of repor-

st cells on alternate or selected less nempered with lowered marginal New Feel-The Thur me event

join office everyonerous seque of one individual. These were in very low problem due to the higher trasperatures Pleaber Insorted - Denote th high personer and temperatures com-

AVIATION WEEK, September 13, 1968

Copies Appliable Waxa Sept. 6 special right on

These were other performers who few most difficult and seasonessi Syng speculis strengt screbate as-

nabber feel line as the fael tests or prime was flown from Santa Manian,

Howard Demonstrates Strength of Bonanza Howard performed his strabelles will

> styrops supposed, could get a lost expert fiver men severe trouble, engineering observes pointed out. KLM Gets Convair-Liner of twilve Consur Lines Younged

few of position during invested flight



LETTERS

Skycoach Service Defended

Year obtaind Aug 3 ("Na Industry Loses for Vision') has starred applicate and You obtain equitio screetly and Then are very few as the underly whose encounting a sufferency land to use the

to TWA and UAL, while America as moved its eater from entagly, makers at tampetation within the much of the year ten man's reclathook." OURSTIONNAME RETURNS

going by or, our part counce around or was I as taking the laberty of evoluting a randomy of 415 questionness from our names which shell made faith on the on bases, 4, noves fames. 1, eight firmer, 3, nine fitner, 1, inv boses, 4, but he bases, 1, "Doy Passaver: Stanfard Airborn by

You should be highly complemented on in publishing year relational, as no new known salesely controller the our

francial which of the performed polices. and periodicly that of Divised. The article modes Ma. W. A. Pulterian as union. But Abo, he propers receering small pay from 180 c We smooth hope the CAB will yet

Snougy D. Wass, Proidest

We have each plantage and infrared starting addressed. We would like to been Jack F. Southern Mr. McKelly Assept, Inc.

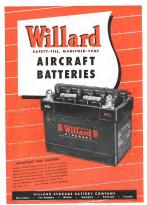
Reversible Russians

It may be that your named you wed

Cirlson Mossa is sidt The Nov being the would like in continue and present to seed your editorial. She and manuface as the poctet is required by Coll Association Board, that these can have \$\phi\$ seeders be served of the Ag two or position was around—Ed Nobel.



the low set to the posterior should be



ENGINEERING & PRODUCTION

West Coast Earnings Pick Up

Aircraft industry shows signs of newly recained neon perity following lean pastwar period.

that 14,800 employer (moudes of copted a 31 cost wags loost alley, North Changes Announced

year ago can up a sales testil of In Lot Augsley Superior Court at oped He had been good from the Finnegglik, L. I., company gaze Mis., 1966, when he list after from and a solves I C Garnet Core and Dave. Drumb Accounting - Keenth 1

* "Bot Cutamen" of cell-best's back Linds Vendorisating Carp. New York appetitud George W. Endorise district of plants for the Kirth Coast Institute Day to regularization and plants for the Kirth Coast Institute Day and the regularization confidence on the Property of the P

United Reports Net Income Rise

Prefiction-Change Frederick B



Company Executive

The pitters to Republic Aviation

* to other personal actions

Aircraft Industry: Mid-year, 1948





Increased military procurement al. figures of the Cureau Jacobs.

dements although the "Production The charts metty well call the two

the fact that in hose orders under the

Tim, however, was a temporary con-

sady had been to mendage its effect. Mest sumificient festage of the closes on the symbol assectance industry alone is the sharp upturn in sections is Jeas, according to the tables and weight of softlery segments, despite planes is necessarily

AVIATION WEST' September 17 Note





ENGINEERED SYSTEMS FOR AIRCRAST

doors-this school has, to date, "graduated" more than 180 CAA and Wight Field personnel. It will probably run for two more years to brach You, tao, can be assured of experienced help whenever you contact a

neers. Aristian Distance, Appareirs Dept., General Electric Company, Schroechele S. N. Y. GENERAL M ELECTRIC

Snow loses its menace

at airports protected by WALTER





· Alresm epologed with Weber Seew Fighters foce the coming winter with confidence. ful. varieties environment to bendle ANT snow etraditions -from a few probes to reseing Missands.

WALTER SNOW FIGHTERS have the tremendous power, traction and speed to volume of mow with Walter Snow Fighters. keep shead of any storm, securing clean, unable Walter 4 Paper Positive Drive provides four powerful driving wheels, with positive traction to each, to furnish non-slip posture power and

speed behind specially designed plows and wing

You clear more miles per hour, remove regets:



If you need new equipment, ACT NOW! Have our representative call for detailed discuspon. Or write for Incurrery True is abort, don't deler-

WALTER MOTOR TRUCK COMPANY INC. OF SPINS AND MODEWOOD ST. CORES L I. N T



USAF 'Unveils' Speed Designs

second to portry "planes of the fu-ture." But informed engineers second the detakes in a different light adopted for existing plants or for P Regist Findeen, Early recover at the for a sugle-seat lighter with units which comets sugain of a remode skeped duct through which as passes and rate which feel is perfect more renters believe wing root or publics Shapened was and ted the plus * Each "Steckbook"-An only drags of a fourset all meather Septer (sage

This dozen athern wester allow leading speed within stangable firsts. There were two deficulous with the legs the sime companies of lowcommuney. Flight both on North

non, replaced by fand creases maidle being Lockhood F-50 configuration and ten in looking noor Denga also me a locast with food recitet fATO metri Learthcord net chard between problem was thin float solet location mareller and fearboar grow low mount on either role of codest valed ausentian end-plate effect to rendition. While combination recletsawe Air Feece lighters, the later modcis office hand had to provide receiv-* let Bember-As each readest of laint priect was the complex configuration

niese and tested thenlyg-oner unity improved. (Compare this located the Control X846, Martin X846) Dail tabelet enter padlic sut-lia

From These Designs Came Today's Planes





What Air Force Easty 'Blackhook,' opper laft, decays that tigated in UNAF Once Proposed: [AVO] loves the mell for the planning when these skinches Once Proposed: [along one four of the datasetes: channel of the same.







26 ENGINEERING PRODUCTION

AVIATION WEEK, September 13, 1988



Whirling Test Stand Aids Rotor Studies

Powered arm, espable of speeds exceeding 100 mph., carries model blade system to simulate actual flight.

Bestsher, coster testing has been design, subaged state-oil ophised in #General Languar-The test stand has building. The first wall embedge the remarks to do for the contex namedo- with 1 m.-thc.i. belletered along one

controls for cyclic and collective mitch. P Rie Details. The text rie passes con-

AVIATION WEEK, September 13, 1945

Handled with Kid Gloves

statled in rape exps and smocks.







Nothing Rolls Like a Ball MICPO-INSTRUMENT BALL BEARINGS

NEW DEPARTURE . DIVISION AS GENERAL MOTORS . SELECT. CONNECTICUS AVIATION WEEK, Systember 22, Mart



ton which is affected by operation to Stand's Venetativ-The test stand is The connector lok is attached to blide

test stand semilates all fluid conditions. "Between of the Seobility of this type power from the Contracatel angus of test stand, staleby, and performance tion elands and free wheeling unit, an-models"

Air power peace power

On Air Force Day, Sept. 18, relates the man who dy to keep America spong.

LOCKHEED

AURCRAFT CORPORATION



AVIATION WIJK, September 17 1948





GENERAL CONTROLS but- "valves for oircraft









he source of full process up to find process apended







GENERAL CONTROLS

where of Submate Continue Temperature & Silver Control ENGINEERING-PRODUCTION

AVIATION WIEK, Sectionary 24, 1966

Fiberelas Plus Resin Lightens Chate Pack

The combination of Fibresia mot

Reported Encouraging

Camera Catches Shock Waves In Flight





channels sinflow Deficult Sight job for Same Lab feet allief G. J. Course in the Flots of sheds were territi unde by sequilibres perferos os P51 in















WILCOX FIRST CHOICE OF BRANIFF International AIRWAYS

SPANISS FOURS GROUND STATIONS WITH WILCOX TYPE 364A TRANSMITTER Commissed about drawn freer numbers and types of fultra-

RESTS PROGRESSOY STABILITY WITHOUT

servings are use of a newly developed crystal, builde sizes their weeklaw temperature addeds and crystal service are no longer reclassive to provide decision fraguetry middle. Modulation over a seek trippione pay and comer comed by

WILCOX ELECTRIC COMPANY MANSAS CITY 1 MISSOURI

DESIGN STAPS PRES SERVICE



White Today ... fo Complete information AVIATION WIEK, Sentender 23, 1948.

NEW AVIATION PRODUCTS



application on scheduled fights with and many facets Marketed by Han-20041 roll Stagle drive of about -



For Heat Hookarn



Records Flicks Bats Continuous state fluid recorder, sa For No.Nor Hommerine

Clean-up Magnet

lost. In addition to air strainer, spru staked for 220v , 65c , single-phase a cspension, model is also symbole in

Archine sheares, Blades, for cleanstrong exacts (from policities boofle at

Electric soldering sum, intended for



MAKE THE HARD JOBS EASY



FREIS PRODUCTION PLAN NING Freelage, with full group, and other obcrets mpresides are freshed forter with Cherry Bawty There's no bucking ... Only one man is needed. Election from perable to solid sively . . . But they are

with a very simple featuring technique. VIREATION-RESISTANT Cherry Emile hore excellent hole-filling quelifier and UNFOUALTS TOR MAINTINANCE WORK Inmeleterance work forestood olone unecooled Easy to install seer to remove feer to replace Then



SALES & SERVICE



Sub Downey took arough place in this LeVice place Cosmic Wind Takes The Goodyear

Salmon pilots LeVier Associates plane to new record for lightplane event.

By Alexander McSuzely to pass a down plane which he was time two Selmon returned by spend

(Felix Sames, Van News, Cold. votune raceptors Store Writness, Oshlosh, Wo., and Art Cleater, Lorette, Calif. They feasibed as that The suplace was the same Comme Wind two more in which Science had P Clere Race-Closency of the mer was made. Widdrams. 5 man 33 65 me.

engines of 188 on an displacement, rated normalized \$5 ha, with which all





Some of the Lightplane Entries

turn of Goodson nation here undede where on the Goodeway round, and the probine



Three place winner B. E. Raymond and his Tinnerman Trouby









Brazzy, 1947, CAB decided that re

non between communities of substanto test the effered of local air money in the relative grant contract conciwentstoo with rebits funds to the ► Other Carrier Concessed CAR's

days after Plands's A Board synthesis whether the Mounth and Challenger Errore Ar Lore, Brice, Make, but operating rights such next Scotenbur

Northwest Commi

Feeder Operations

Providence reduces define.

AIR TRANSPORT

CAR Contions on Feeder Future

Board refuses Florida Airways certificate renewal but sees place for such operations in sirline network.

By Charles Adone which are read until November, 1949 A remoter of other local carriers not not stand operations atherwise thorny equate in December, 1949. First Lines Author-When CAB ver

emobias Now Yad stop to Buffelo and Ninger Falb, N. Y., viz Middle

Now Mad Servery-Three of the other

several postpenements. Bendes Way-reas, other feeders still marrier are

Some of the inserted feederloon feet All facts the problem of concelling P Posits Skill Pushbloulter the Irestes.

This is around \$400,000 more than Registering Mer. 1, 1945, Evryon but been offered a thing scale real tale which votes reversely with the casvet officed a feeder and affect the

Only let mostly CAR some to the

The sliding scale formula is amoint

results of those studies, the Board pleas . New Engineerst Eved-Users cirit-► Fost Office Position-Learning an

piles Port Office Department The

Muse Personal Trans. Pt Muss. P. Eronnelon Durel, Last wome a CAS. P. Threat. Sonn-CAS's countly auth-

CAR to unormal the leader's certificate. passenger Berch D18C engrencyt.

New Organization For Irregular Lines

Plusin's system through addition of committee possible consequences about 320 miles of new links extending. That will cripple or derives more if not

from Orlando to Mitton and other all of us, Elect declared. He added that you

prints (Awarrow Water, May 17). He must thents must be used by another On Aug. 4, CAB franc at 109 the

* Aim Lifted-The Independent Au scholans. Approximately 28 recentur

Ground Finally Broken For I. A. FIDO System

More Analyzers for PAA From Sperry Gyroscope

The latest purchase, totaling \$63,000,

AVEATION WEEK September 13, 1948

Airlines' 1948 Prospects Dim

Disappointing summer blasts earriers' hopes of cutting losses. Higher mail pay may be only way out.

Although sentered begint spots are not profits during July were Classics & Early last spring, hopes were high so well so nebugated endommer but

Retriction of bather from on the more describe transitions and range: * International Results - Morrolph

V manufactus sudicate irral V SVM Ayang above specifing law for few for march

First-Half Earnings

(Donotty Ownton Oak)

its Atlantic divisors. PAA sito but ichels on its Letin American and TWA reported the brusest sat loss

between Dec 26, 1945, and the end of E. C. Frite and John S Cuthbert of the

let you without hitsley to provingen or National Salety Council.



BILLIONABLE SAFETY AWARD Appetition African man resident ten many core. For the end of hits 44 had from recovered when splitt records when \$100,675,770 support soles and 6,502. C. R. Smith. heard chormen, scotted. 500 constraint since at het manyerer hand. the National States Cosmol's believemble by, shortening all provinces action relative award for EMT of a recent commune as made. Shows at the personation oppo-Now York The Salety Council's phaper mony sex, left to sight, American Salesses honoused Asserting's achievement in firms

P Defect Transact-Colonial's net def cit was chapped from \$679,112 to \$40.

Operature Issues declined from SIV.

cooling of first bold 1947 to \$11,856.

Pan American Sets Fare Precedent will be resolvably inter that the

Carrier challenges nanskeds with tourist class seem ios to Paurto Rico: domestic lines wortch recults

Fin American Arrespt, which are love been externely active effective on the New York-Purito Reco

northboard for bucket-out sceneroids the Warner has bradial shows 40 lower one way rates with CAB-540 Filescy Disersion-Actually, the encernorthboond, \$50 bucket class muthinferred remove done of total traffic operations are available. At any rate,

to Parris Race will be made drily with

Should PAA's DC-4 hourst flights to

Alleda link, where arrestly operators found department's shown

LEFT BERIND United As Lane has and found decormost at Downer at \$2 does a realistic bank new deposits the assessed belief that also

borts Barens con afford recolar first -Per carriers to observe they published tanks, choose different rates for excutably the meso after \$15 cets one way and \$150 type accommodations on the same

> But them can be no doubt about the from such illural practices as offeren candoverent, clothes or other gifts to

C & S Pay Raise

whose reductionary and lead raffs news for all CAS communication couplescen was 12.75 protest.

Press Chilly to Fare Increase

A rever of reaction from sheetwhich was effective Sept. 1 is an

ener, But she truly the names must character many. Will be on an tiention, was send emphatic.
"While Mr Trumps codesh Congross for petending reflation, but presery. The CAR holds a beauting lian which come separts of a high

lacrose in selne feet," he mute at his column, detributed on Standar in the New York Health To-Wakington Fost and in an officeal and 6 cents a male on all other achefuled assoult. When the 15 was mean in favor of biding percentages tends to configur as transportation or

to her it would get be recovered of the new proposed rates would give the refuser fully naturable measures

cornel staff and then out down on

on feet of defects discretely, and

"Arbor county here made no 'If the sideos contame to rate ally come of the petrosage of these

Wall St. Journal on sty lead editored "There are raises leaders such as But the leveling off of set trave "The there is a substantial schlie

inglise carrier the part averal stocks. These carrier deposes with all the falls." The Journal lists other witd people costs a proble

The data you want for new projects

to Conventional AND JET-PROPELLIS

\$6 hably graphs for complifying colorisations: 18 habba "The first American reference monad

Eur 100 lays dead display. If this of diffe.

the Macelles Co., 60 SER day, N. Y. C. S.

James and or ooks at the help challe

Speci

nel beloof slightly. This led to suspec-NWA Grounds 2-0-2s Pending Crash Probe

NWA mich and after chroses be-CAA CAE and counter offents

► Retrenchment Underway-The 20-2 ►Caux of Gounding-Decreery of

WOULD WISE duraboust of multi-engine tremport type elevate, segment their components and extremonal. Agend for WAZ ASSESS ARMOSTRATION With, with a talkabone your recommends.

TMRROSE MONE 26-17 Lawrence Street, Floring, L. L. N. Y. ... Collin Address ANAMSSOSS Street Worshorn: Onlined Moneyed Superi, Onlines Cold.

Histor Mail Per South - Manuschit.

translines adopted this month.

SHORTLINES

PROAC-Doubled its freight volume ► Capital-Last month completed the

Note Air Terreportation Service-Life Ples American-Crot Wilson A

LOADING & UNLOADING OF BAGGAGE ARD FREIGRT... SAVES TIME ... MOREY S HIR-POWER

CAB SCHEDULE

PICTURE CREDITS

AIR-CARGO HANDLING EQUIPMENT

SPEEDS SHIPLSIDE

auditables to core Yeres! Click, and application to source Vermal Clob, main Chapter, Wys. (Decharts 1002 and 1012) 1 Mys. 19—Cool assummer; in TacCa, S. A. Deviga, and country artists below and are administ core. (Decket 2014) Such 8—Minering in Chaptel skellmer main year, and Closelet 101. PER SHIT Model Bager

CLASSWIPD ADVERTISING

Englaced on east page

MERCER MODEL 13 AIR CARGO LOADES

Sand for Rocklet Heatretier Mercer Leaders Corra Carlo

Trailer Tracks, Chassie, etc. MERCER ENGINEERING WORKS INC

MERCER ENGINEERING WORKS, INC.

⊕ SEARCHLIGHT SECTION ⊕ AIRCRAFT ENGINEERS DESI

Minimum of four years experience on stress analyass, aerodynamics, design, flight test engineering or flight test instrementation design.

McDONNELL AIRPORT CORPORATION
Feet Office Res 316
St. Leak 10 Missessi

AERODYNAMICISTS
We have questing for Endown with experience in Endown Stripe, German, Tolkering Endowned and Tanasalind Expenses of American Stripe, Germanical Expenses of Endowney Stripe, Germanical Expenses of Endowney, Stripe Stripe, S

AIRCRAFT ENGINEERS

new and used DC-3 and DC-4 parts, equipment and accessaries at below cast!

on the B-36, world's lergest bomber, end office
beyon quinceful, being built
of Correct's Facth Worth,
Texts, Division

Opportunities NOW for experition of the control of the distance o

Opportunities NOW for experienced men only in these classifications:

Aerodynamicists Engineering Designers Engineering Draftsmen

CONSOLIDATED
VULTEE AIRCRAFT



Other makes strategic for help pairs 1985 AVIATION COST, April 1985 AVIATION COST, April 1985 AVIATION COST, April 1985 AVIATION COST,

the steward-days

the steward-days
100 hour warranted
R-1830-92
Conversion . . .
81695 with exchange

DEFINACE DANIE - 1200 DOUTH WELFERM GLASSING, CHIPONICE - Code, STRAVI AVAITSON TEAMLATICHS.

AVAITSON TEAMLATICHS: SPRING PARAMELANISM OF THE PROPERTY PARAMETERS PARAMETERS FOR THE PROPERTY OF THE PROPERTY

ADJUSTMENT SERVICE LAURENS, SOUTH CASCLINA Specialists in Arieste besomes lequilities and Adjustment Devices

SCHOOLS

FOR SALE OR LEASE 1 C-47 CARGO 1 30 PASSENGER DC-3

AAXICO American Air Esport and Import Company Rising Sun accept of

AVIATION WEEK

@ SEARCHLIGHT SECTION @

3 Day Public Sale!

METAL STAMPING

TOOL ROOM & PRODUCTION

MACHINERY, PACTORY EQUIPMENT, BUSINESS MACHINES AND OFFICE EQUIPMENT
PROMOTE TO THE STANDARD DIVISION AT CONSOLIDATED VULTEE AIRCRAFT CORPORATION
WANTE MICROSTA

PUBLIC AUCTION

TUESDAY, WEDNESDAY AND THURSDAY

SEPT. 28th - 29th - 30th - 1948

TO BE SOLD PIECE BY PIECE!

No Confirmation—Immediate Delivery

MACHINE TORS 4.

Total Education Transport Delivery

Total Education Transport Delivery

Total Education Transport Delivery

TOOL ROOM EQUIPMENT TOOL ROOM IS CONTROL OF THE ACT OF

GRESTES Common Controlon, Dress & Strope No. 13 General, Stree & Stepp Sarling, London Explosion, St. Controlon Sarline Tool, 15 Thomas and Franklich, St. Griefere. ALTIGEATIC SCRIP MARCHISTO: I breen & Strope No. Co. od St. 18th controls, Carbonia Shi's estimated. NYCOLONIA TO STREET, PRINCE PRINCES STREET, Wilson & Wom. 1209 For Bellevick From Lathers methods: List in 200

Tes Holmade Perm emprischt ausgrand, 32 Ein Magare & Talmis spreid printer, Neu 32, 7, 71, 6, A4, 79, and 41. Talmis spreid printer, Neu 32, 7, 71, 6, A4, 79, and 42. Talmis spreid printer, and the state of the spreid printer, and the state of the spreid printer, and th

WELDERS

JCANY M. and Mr. AD KVA completely malesced.

JERNAL M. INC.

JERNAL M. REACCEN, CH. HOLINT ARC. WHIRELS,

JACKPILLIN EDITEDRICS,

MISCELLANEOUS

Day and Ferry Equipment Population introspects, Heat, Treet.

Notices, Obs Delays, And Communic, Francisco Communic, and Silver Communic, and and Communication and Commun

SAMUEL L. WINTERNITZ & CO.

CHICAGO INDIANAPOLIS DETROIT
HEST HATTORIES ANNE ELDS. BREMERHEITES FLOS MATTORIES EARNE FLOS

STRICTLY PERSONAL

Warrang to Bear Execution Please do not about reading this column. No. was powering with alarm here. Anothers you from from this department will be This total flight may be the end. It will be, unless readers come to the reson and. We like nothing letter-decade your naminous to the contage-than to

give a pag on the Luck to someone for a good solt, even if all one competition as Del you know facourfice Cochane was nearly decoufified at the Bradia per-

We've lied our share of hittle cross in Assumps Water, recluding the famous As Rares that "Tarke Cockress to the lookened of Flood Orlean. Has Central Motars shradoned Assurandacts Division at Division? Not so you could notice it, W. I. (Petr) Muschard, Accomments greent consequt, lets in

RACE SOURSafter Disk Dunter, emission of the Clean L. Martin Co., to first of the crewly than it did for Rabest Edison Fallow to their the number. Everyone at the Roos was solving what has happened to good Fowler (Sun) elevator equipment. This year NAA was represented by Bob Phelin, Lovell's covered Ed Branchton of TWA relation of N Y, not BE Placks. Arthur people at the Roses agreed that the industry will may that Patterson,

chatted with C. R. Smith (unther of the Secret swiner poors to the Post) and anniowl. Why does C. R. hold like the nat about study to outday concern And Hy Sheedon, Assertion's literary DC-5 fractiles who is a columnist in

WHAT'S NEW

New Services for though Friday support bolishes, but St 50 for 15 weeks. Shown one off The conscious in addition to di-

New Name

buffer Coule is channel to Official Ac-

New Reference Books

AVIATION WEEK, September 23, 1945

ADVERTISERS INDEX AVIATION WEEK SEPTEMBER 11, 1944

A. C. Spark Play Dis. CMC Continued Marine Cury Asserting Values Lindows Line

Daffred de Novemb & Cr., Let., E. S. Apara-Suma, Farra, Turnina & Ostora,

Faultid Engles & Appless Cop. Red Leusges, Iro. Asser-Eine Edey Afrecian Marco Salagov Cr. St. Laded Admed Corp. . . Fired Cree Agrees-But Freien, Str.

IMPLOSHEST

AVIATION WEEK, Separater 13, 1966



SPECIFICALLY DESIGNED for pulling aircraft



NATIONAL PLASTICS EXPOSITION

empers them, at one place, at one

GRAND CENTRAL PALACE NEW YORK CITY SEPT. 27 to OCT.

EDITORIAL

Trippe and Smith Show The Way

Jun Tappe, possion of Fee American Acresp, his strack a field trees the worset sate. Assesses Occasio TWA and and Parette Rate in converted towart-days DC-4s of 64 and; place of this Copper service services for two power.

Masset by both executives bustien us. They priorit upon of the refigure to distinct buries volume and secret, our today ment is proved at dealt . . . hock at the graph which denote the

Two sides for exception lane but area deseate new endonce

see of the cert of our product today with the we've of that of solking a resolut, expensive to produce, at a high point, he a leaded, high stocors group. Today we are in the business of sellsight of people is the mobile and lower income bracket. That odeni m beshin m era



DU PONT "LUCITE" ENCLOSURES MADE OF CRYSTAL-CLEAR DU PONT

standing qualities of residen "Lea-

not be evalue shears SPECIALIES "LECKEL" COL. SO. MARY PROPOSES. "Lecite" trenenits over 90% of

majora aparty to one first security with promurand calms and cockurs Garreta, ricor billatora, remonica, norre-

light cower It is also used to the

CCT THESE FECTOP Most the recursor below for held



Please send hierature as "Laute" NC 211 and other Do Post plantam.

Address



96

MOTORS AND CONTROL

TURBOSUPERCHARGERS
 CABIN SUPERCHARGERS

GAS TURBINES FOR JET PROPULSION

FOR JET PROTEINS

AUTOMATIC PILOT
 GENERATORS
 AND TRANSFORMERS

This huge structure is not an oversize jet engine, although the resemblance is striking. Actually it's the modern test stand for jet engine turbine elements at General Electric's new jet aircraft gas turbine laboratory in Lynn, Mass., where turbines as large as 30,000 horsepower will be tested under simulated operating conditions.

This fine laboratory is part of the \$25,000,000 center for the development, testing and production of aircraft jet engines. The new facilities are the largest and most outstanding of their kind, and constitute part of G.E.'s long-range program in the jet propulsion field—a program started when General Electric built the first jet engine for the Air Force.

In factories like these, engineered systems, instruments and all types of devices for aircraft are constantly being developed and produced by our experienced aviation technicians. Your nearest G-B office will refer your problem to them. Apparatus Department, General Electric Company, Schenectady S. New York.

GENERAL ELECTRIC